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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,540	09/24/2004	Kai-Kuang Ho	13365-US-PA	5539
31561	7590 06/26/2006		EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE			NGUYEN, TRAM HOANG	
	7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2		ART UNIT	PAPER NUMBER
	00	2818		
TAIWAN			DATE MAILED: 06/26/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/711,540	HO ET AL.
Office Action Summary	Examiner	Art Unit
	Tram H. Nguyen	2818
The MAILING DATE of this community Period for Reply	ication appears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOWHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If NO period for reply is specified above, the maximum states a Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMUNIC of 37 CFR 1.136(a). In no event, however, may a re nunication. attactory period will apply and will expire SIX (6) MONT will. by statute, cause the application to become AB.	CATION. pply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) file	ed on <u>09 February 2006</u> .	
2a) This action is FINAL.	2b)☐ This action is non-final.	
3) Since this application is in condition closed in accordance with the praction	for allowance except for formal matte ce under <i>Ex parte Quayle</i> , 1935 C.D	·
Disposition of Claims		
4) ⊠ Claim(s) 1-34 is/are pending in the a 4a) Of the above claim(s) 1-24 is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 25 and 28-34 is/are rejecte 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restrict	e withdrawn from consideration.	
Application Papers	,	
9) The specification is objected to by th	e Examiner.	
10)⊠ The drawing(s) filed on <u>24 September</u>		objected to by the Examiner.
	ection to the drawing(s) be held in abeyar	
Replacement drawing sheet(s) including	g the correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to	o by the Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in A of the priority documents have been onal Bureau (PCT Rule 17.2(a)).	application No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	, s	Summary (PTO-413) (s)/Mail Date
Notice of Draftsperson's Patent Drawing Review (Information Disclosure Statement(s) (PTO-1449 o Paper No(s)/Mail Date		Informal Patent Application (PTO-152)

Art Unit: 2818

DETAILED ACTION

1. In response to the communications dated May 08th, 2006, claims 25-34 are active in this application.

Claims 26-27 have been cancelled.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 25-29 are rejected under 35 U. S. C. § 102 (b) as being anticipated by Glenn et al. (hereinafter refer as Glenn) (U.S. Patent No. 6,117,705).

Regarding to **claim 25**, Glenn discloses a chip with polymer thereon (figure 7), comprising at least a chip (reference numeral 100) having an active surface(reference numeral 101); and polymer (reference numeral 320), disposes at periphery of the active surface of the chip extending to sidewalls of the chip; a plurality of wires (reference numeral 208) electrically connecting the chip (reference numeral 100) and a carrier (reference numeral 222) for carrying the chip, wherein the polymer (reference numeral 320) further cover a portion of each wire (reference numeral 208) near the active surface (reference numeral 101) of the chip.

Art Unit: 2818

Regarding to **claim 28**, Glenn discloses all the limitation of the claimed invention for the reasons are set forth above; in addition, the figure 7 also shows the polymer (reference numeral 320) further covers a portion of the carrier (reference numeral 222).

Regarding to **claim 29**, Glenn discloses all the limitations of the claimed invention for the reasons are set forth above; furthermore, the figure 7 once again shows the carrier (reference numeral 222) comprises a circuit substrate (reference numeral 200).

Claim Rejections - 35 U.S.C. § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2818

6. Claims 30-34 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Glenn.

Regarding to **claim 30**, Glenn discloses all the limitations of the claimed invention for the reasons are set forth above; except for the polymer is shaped as a ring covering periphery of the active surface of the chip. However, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify shape of the encapsulating because those skilled in the art will recognize that such modification and variations can be made without departing from the spirit of the invention.

Regarding to **claim 31**, Glenn discloses all the limitations of the claimed invention for the reasons are set forth above; except for the polymer is shaped as trips covering two opposite edges of the active surface of the chip. However, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify shape of the encapsulating because those skilled in the art will recognize that such modification and variations can be made without departing from the spirit of the invention.

Regarding to **claim 32**, Glenn discloses all the limitations of the claimed invention for the reasons are set forth above; except for the polymer is shaped as a plurality of pieces covering four corners of the active surface of the chip. However, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify shape of the encapsulating because those skilled in the

Art Unit: 2818

art will recognize that such modification and variations can be made without departing from the spirit of the invention.

Page 5

Regarding to **claims 33 and 34**, Glenn discloses all the limitations of the claimed invention for the reasons are set forth above; besides, Glenn teaches the polymer comprises epoxy resin (col. 1, lines 66-67). Although Glenn does not clearly show polymer comprises a stress buffer polymer, but polymer is inherently considered as stress buffer polymer because polymer comprising epoxy resin wherein the epoxy resin is a stress buffer material.

Response's to Applicant's Amendment and Argument

7. Applicant's arguments filed May 08th, 2006 have been fully considered but they are not persuasive. It is argued on page 2 of Remark "the polymer covers a portion of each wire near the active surface of the chip." However, Fig. 7 of Glenn shows a portion of each wire that is near the active surface of the chip is covered by polymer. Since Applicant does not explicitly claim polymer cover only portion of each wire near the active surface while the other portion of the wire is being exposed outside of the polymer. Therefore, claimed invention does not distinguish over Glenn and the previous rejection will not be withdrawn. In addition to that Examiner will make this action <u>final</u>.

Conclusion

8. **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2818

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tram H. Nguyen whose telephone number is (571)272-5526. The examiner can normally be reached on Monday-Friday, 8:30 AM – 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax numbers for all communication(s) is (703)872-9306.

than SIX MONTHS from the date of this final action.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-1625.

Tram H. Nguyen Art Unit 2818

June 15th, 2006.